

For DoD, law enforcement, and private security organizations that need personnel protection, Code 4 Armor is a multi-impact, customizable, monolithic armor technology. Unlike competitive products, Code 4 Armor uses cermet metallic patent-pending technology, a composite material composed of ceramic and metal, which provides multiple hit survivability. Code 4 Armor affords superior protection while reducing product weight and production costs. We've accomplished a proof-of-concept prototype for marine propulsion application, and we are now looking for a partner who will fully commercialize this technology.

FEATURES

- Provides stopping power equal to steel armor
- Weighs half as much as steel armor
- Will not separate like glued, layered construction
- Does not fragment catastrophically
- Sustains multiple impacts
- Can be mass produced on an assembly line
- Can be custom fit and functionally graded for specific applications

BENEFITS

- Decreases final product weight and increases comfort
- Improves safety by eliminating weak points caused by glued construction
- Better meets protection needs in a combat zone
- Reduces cost by eliminating hand-work and reducing material waste



APPLICATIONS

- Military and other federal and state government personnel
- Police officers
- Security and money-transfer personnel
- Counterterrorism agents
- Ballistic protection for embassies, hotel lobbies, teller booths, check points
- Structures and barriers
- Exterior surface shielding for vehicles (air/land)
- Stronger fuel tanks and sniper shields

PATENTS AND AWARDS

The Y-12 National Security Complex has patent-pending protection for this technology – U.S. Patent Publication No. 2007/0116590.

INVENTOR

Edward Ripley

TECHNOLOGY READINESS LEVEL (I-9)

3 – Proof Of Concept: Analytical/experimental critical function and/or characteristic proof of concept.

PARTNERING OPPORTUNITIES

Y-12 is seeking an industry partner to fully commercialize this technology.

If you would like more information about this technology, please contact:

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